

~~second length and a second height, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal;~~

(b) a cathode assembly, comprising:

- (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
- (2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

~~the anode and cathode assemblies forming a unidirectional electrode winding~~

~~having two substantially straight sides and being wound so that the anode current collector is located on one or more outer layers of the unidirectional electrode winding.~~

10. (Three Times Amended) An electrode assembly for an electrochemical cell, comprising:

- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the first height of the anode current collector being shorter than the second height of the elongated strip of alkali metal;
- (b) a cathode assembly, comprising:
 - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
 - (2) a cathode material bonded to the current collector,
- (c) a first separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode

assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, the unidirectional electrode winding having the anode current collector as the outer winding

28. (Three Times Amended) An electrode assembly for an electrochemical cell, comprising:

(a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a ~~first~~ edge thereof, the strip of elongated alkali metal having a first length and a ~~first~~ height, the anode current collector having a second length and a second height, the second length being shorter than the first length:

(b) a cathode assembly, comprising:

(1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current

2
3

collector having a third length and a third height; and

(2) a cathode material bonded to the current collector,

(c) a first separator layer interposed between the anode and cathode assemblies[the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly]; and

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides, the second height of the anode current collector being shorter than the third height of the cathode current collector, and the anode current collector forming one or more outer layers of the unidirectional electrode winding.

DKJ

37. (Three Times Amended) An electrode assembly for an electrochemical cell, comprising:

(S)

D

- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal, the second height of the anode current collector being shorter than the first height of the elongated strip of alkali metal;
- (b) a cathode assembly, comprising:
 - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
 - (2) a cathode material bonded to the current collector,
- (c) [a first] at least one separator layer interposed between the anode and cathode assemblies, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and
- (d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in

[X]
DH

the pocket[, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.];

the anode and cathode assemblies forming a unidirectional electrode winding having two substantially straight sides and further having the anode current collector forming the one or more outer windings of the unidirectional electrode winding.

[X]
DH

46. (Three Times Amended) An electrode assembly for an electrochemical cell, comprising:

- (a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal having a first length and a first height, the anode current collector having a second length and a second height, the second length of the anode current collector being shorter than the first length of the elongated strip of alkali metal;
- (b) a cathode assembly, comprising:
 - (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length and a third height; and
 - (2) a cathode material bonded to the current collector,
- (c) [a first]at least one separator layer interposed between the anode and

cathode assemblies[, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly;

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.]; and

the anode and cathode assemblies forming a unidirectional electrode winding [having two substantially straight sides, the second length of the anode current collector being shorter than the third length of the cathode current collector,] such that the anode current collector forms the outer windings of the unidirectional electrode winding.

55. (Three Times Amended) An electrode assembly for an electrochemical cell, comprising:

(a) an anode assembly comprising an elongated strip of alkali metal forming an anode and an anode current collector having at least a first connector tab disposed on a first edge thereof, the strip of elongated alkali metal

having a first length[and a first height], the anode current collector having a second length[and a second height, the second length of the anode current collector] being shorter than the first length of the elongated strip of alkali metal;

(b) a cathode assembly, comprising:

- (1) a cathode current collector having disposed on a second edge thereof at least a second connector tab, the cathode current collector having a third length[and a third height]; and
- (2) a cathode material bonded to the current collector,

(c) at least a first separator layer interposed between the anode and cathode assemblies[, the separator layer forming a pocket around the anode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the anode assembly, conforming the separator layer to the anode assembly, and joining the separator layer to itself with a seal at a bottom edge of the anode assembly; and

(d) a second separator layer interposed between the anode and cathode assemblies, the second separator layer forming a pocket around the cathode assembly with the connector tab being exposed through a slit in the pocket, the pocket being formed by folding the separator over a top edge of the cathode assembly, conforming the separator layer to the cathode assembly, and joining the separator layer to itself with a seal at a bottom edge of the cathode assembly.]; and